

BUTANE (LIQUIFIED GAS UNDER PRESSURE)

MSDS Number

BBDVS

National Stock Number

6830-00D001091

Product Name

BUTANE (LIQUIFIED GAS UNDER PRESSURE)

Manufacturer

UNION CARBIDE CORP

Product Identification

Product ID: BUTANE (LIQUIFIED GAS UNDER PRESSURE)

MSDS Date: 01/01/1987

FSC: 6830

NIIN: 00D001091

MSDS Number: BBDVS

Responsible Party

UNION CARBIDE CORPORATION

270 PARK AVE.

NEW YORK , NY 10017

US

Emergency Phone: 304-744-3487

Info Phone: 304-744-3487

Cage: 36346

Contractor

UNION CARBIDE CORP LINDE DIV

DANBURY, CT 06817-0001

US

800-822-4357; 304-744-3487

Cage: 36346

Ingredients

BUTANE

CAS: 106-97-8

RTECS: EJ4200000

Fraction By Weight: 100%

OSHA PEL800 PPM

ACGIH TLV: 800 PPM; 9192

Hazards

LD50 LC50 Mixture: TLV IS 600PPM TWA

Routes of Entry: Inhalation: YES Skin: NO Ingestion: NO

Reports of Carcinogenicity: NTP: NO IARC: NO OSHA: NO

Health Hazards Acute and Chronic: N-BUTANE GAS IS A SIMPLE ASPHYXIAN. OVEREXPOSURE MAY CAUSE CNS DEPRESSION.

Explanation of Carcinogenicity: THERE ARE NO INGREDIENTS ABOVE 0.1%

WHICH ARE IDENTIFIED AS CARCINOGENS BY NTP, IARC OR OSHA.

Effects of Overexposure: INHAL: ASPHYXIATION, ANESTHESIA

Medical Cond Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER.

First Aid

First Aid: REMOVE TO FRESH AIR. GIVE CPR/OXYGEN IF NEEDED. KEEP WARM AND AT REST. AVOID ADMINISTRATION OF EPINEPHRINE, OTHER SYMPATHOMIMETIC AMINES.

Fire Fighting

Flash Point: -76F, -60C, TCC
Autoignition Temp: Autoignition Temp Text: 761F
Lower Limits: 1.9
Upper Limits: 8.5
Extinguishing Media: CO₂, DRY CHEM, WATER SPRAY, WATER FOG.
Fire Fighting Procedures: SELF-CONTAINED BREATHING APPARATUS/FULL PROTECTIVE EQUIPMENT. COOL FIRE EXPOSED CONTAINERS WITH WATER FOG. DO NOT EXTINGUISH FLAME; ALLOW FIRE TO SELF-EXTINGUISH.
Unusual Fire/Explosion Hazard: **FLAMABLE GAS** CONTAINERS MAY BURST AT ELEVATED TEMPERATURES. DO NOT EXTINGUISH FLAMES; THEY MAY REIGNITE EXPLOSIVELY. FORMS EXPLOSIVE MIXTURE W/AIR + OXIDIZERS.

Accidental Release

Spill Release Procedures: ELIMINATE SOURCES OF IGNITION. USE PROPER RESPIRATORY AND PROTECTIVE EQUIPMENT. SHUT OFF LEAK IF SAFE TO DO SO. VENTILATE AREA; ALLOW TO EVAPORATE. REDUCE VAPORS WITH FOG OR FINE WATER SPRAY.
Neutralizing Agent: NOT APPLICABLE.

Handling

Handling and Storage Precautions: STORE IN A COOL, DRY, WELL-VENTILATED PLACE. KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP AWAY FROM HEAT, SPARKS, FLAMES AND INCOMPATIBLE MATERIALS.
Other Precautions: USE AN APPROVED EXPLOSION METER WHEN CHECKING CONFINED SPACES.

Exposure Controls

Respiratory Protection: WHERE ENVIRONMENTAL CONTROLS ARE LACKING OR IN ENCLOSED SPACES USE A SELF-CONTAINED BREATHING APPARATUS.
Ventilation: LOCAL VENTILATION AT THE WORKSITE; MECHANICAL (GENERAL) VENTILATION TO MAINTAIN TLV/PEL. USE NON-SPARKING EQUIPMENT.
Protective Gloves: ANY TYPE FOR CYLINDER HANDLING.
Eye Protection: FULL FACE SHIELD
Other Protective Equipment: METATARSAL SHOES; PROTECTIVE CLOTHING.
Work Hygienic Practices: USE REASONABLE CARE IN HANDLING THIS PRODUCT. WASH HANDS AFTER USE AND BEFORE EATING.
Supplemental Safety and Health
VAPOR PRESS: 1603MM HG OR 16.3 PSIG.

Chemical Properties

HCC: G2
Boiling Pt: B.P. Text: 31F, -0.5C
Melt/Freeze Pt: M.P/F.P Text: -216F, -138C
Vapor Pres: 16.3 PSIG
Vapor Density: 2.05
Spec Gravity: 0.579
Evaporation Rate & Reference: HIGH (BU AC=1)
Solubility in Water: SLIGHT
Appearance and Odor: COLORLESS, FAINTLY DISAGREEABLE ODOR.
Percent Volatiles by Volume: 100

Stability

Stability Indicator/Materials to Avoid: YES
OXIDIZING AGENTS
Stability Condition to Avoid: SHOCK, FRICTION, HEAT ABOVE 125F/52C, IGNITION SOURCES
Hazardous Decomposition Products: CARBON DIOXIDE, CARBON MONOXIDE.

Disposal

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND

LOCAL REGULATIONS.

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